

Project Title	Funding	Strategic Plan Objective	Institution
Studying Rett and Fragile X syndrome in human ES cells using TALEN technology	\$30,000	Q2.S.D	Whitehead Institute for Biomedical Research
Genetically defined stem cell models of Rett and fragile X syndrome	\$350,000	Q2.S.D	Whitehead Institute for Biomedical Research
The microRNA pathway in translational regulation of neuronal development	\$340,304	Q2.S.D	University of Massachusetts Medical School
Investigating the role of CNTNAP2 gene in vocal learning in mutant songbirds	\$197,609	Q4.S.B	University of Massachusetts Medical School
Optimizing initial communication for children with autism	\$333,168	Q4.S.G	University of Massachusetts Medical School
Contingency analyses of observing and attending in intellectual disabilities	\$261,988	Q4.S.G	University of Massachusetts Medical School
Atypical effects of reinforcement procedures in ASD	\$250,000	Q4.Other	University of Massachusetts Medical School
Training school speech-language pathologists to assess and manage communication skills in children with autism	\$0	Q5.Other	University of Massachusetts Amherst
Training Speech-Language Pathologists in the Public Schools to deliver Reliable Evidence-based Models of Technology Effectively	\$246,816	Q5.Other	University of Massachusetts Amherst
Healthy Weight Research Network (HW-RN) for Children with Autism Spectrum Disorders and Developmental Disabilities (ASD/DD)	\$200,000	Q7.N	University of Massachusetts, Worcester
Dissemination of multi-stage screening to underserved culturally-diverse families	\$0	Q1.S.C	University of Massachusetts, Boston
The early development of attentional mechanisms in ASD	\$0	Q1.L.B	University of Massachusetts, Boston
Addressing Health Disparities in ASD Diagnosis, Services, and School Engagement	\$282,459	Q1.S.C	University of Massachusetts
Role of astrocytic glutamate transporter GLT1 in Fragile X	\$5,000	Q2.S.D	Tufts University
Deficits in tonic inhibition and the pathology of autism spectrum disorders	\$62,500	Q4.S.B	Tufts University
Role of astrocytic glutamate transporter GLT1 in fragile X	\$0	Q4.S.B	Tufts University
Comparative effectiveness of developmental-behavioral screening instruments	\$680,452	Q1.S.B	Tufts Medical Center
Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior	\$0	Q1.L.B	Trustees of Boston University
Leadership Education in Developmental-Behavioral Pediatrics	\$15,276	Q7.K	The Children's Hospital of Boston
Autism Biomarker Discovery Program	\$1,999,984	Q2.L.B	Seaside Therapeutics
Neuroactive steroid GABAA receptor positive modulators for fragile X syndrome	\$162,500	Q4.Other	Sage Therapeutics, Inc.
Developmental Disabilities Dentistry Online	\$410,983	Q5.L.E	Praxis, Inc.
Do animations facilitate symbol understanding in children with autism?	\$0	Q4.S.G	Northeastern University

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Home-based system for biobehavioral recording of individuals with autism	\$353,250	Q4.Other	Northeastern University
Using a direct observation assessment battery to assess outcome of early intensive behavioral intervention for children with autism	\$20,000	Q1.L.B	New England Center for Children
Functional analysis of EPHB2 mutations in autism	\$124,950	Q2.Other	McLean Hospital
Collaborative research: Computational behavioral science: Modeling, analysis, and visualization of social and communicative behavior	\$0	Q1.L.B	Massachusetts Institute of Technology
Role of Serotonin Signaling during Neural Circuitry Formation in Autism Spectrum Disorders	\$0	Q2.S.D	Massachusetts Institute of Technology
Probing the neural basis of social behavior in mice	\$125,000	Q2.S.D	Massachusetts Institute of Technology
CAREER: Typical and atypical development of brain regions for theory of mind	\$148,521	Q2.Other	Massachusetts Institute of Technology
Using Drosophila to characterize the molecular pathogenesis of autism	\$234,000	Q2.Other	Massachusetts Institute of Technology
Behavioral, fMRI, and anatomical MRI investigations of attention in autism	\$49,214	Q2.Other	Massachusetts Institute of Technology
Shank3 in synaptic function and autism	\$385,200	Q2.Other	Massachusetts Institute of Technology
Impairments of theory of mind disrupt patterns of brain activity	\$308,160	Q2.Other	Massachusetts Institute of Technology
Brain bases of language deficits in SLI and ASD	\$583,471	Q2.Other	Massachusetts Institute of Technology
Dissecting the circuits underlying autism-like behaviors in mice	\$175,000	Q4.S.B	Massachusetts Institute of Technology
Neural and cognitive mechanisms of autism	\$0	Q4.S.B	Massachusetts Institute of Technology
Synaptic pathophysiology of 16p11.2 model mice	\$250,000	Q4.S.B	Massachusetts Institute of Technology
Infrastructure support for autism research at MIT	\$0	Q7.K	Massachusetts Institute of Technology
The new Simons Center for the Social Brain	\$5,500,000	Q7.K	Massachusetts Institute of Technology
Sequence-based discovery of genes with pleiotropic effects across diagnostic boundaries and throughout the lifespan	\$29,995	Q3.L.B	Massachusetts General Hospital and Harvard University
Development of accelerated diffusion and functional MRI scans with real-time motion tracking for children with autism	\$0	Q1.L.B	Massachusetts General Hospital
MicroRNAs in synaptic plasticity and behaviors relevant to autism	\$131,220	Q2.S.D	Massachusetts General Hospital
Translational dysregulation in autism pathogenesis and therapy	\$125,000	Q2.S.D	Massachusetts General Hospital
The genomic bridge project (GBP)	\$158,206	Q2.S.G	Massachusetts General Hospital
Local functional connectivity in the brains of people with autism	\$108,297	Q2.L.B	Massachusetts General Hospital

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Retrograde synaptic signaling by Neurexin and Neuroligin in <i>C. elegans</i>	\$125,000	Q2.Other	Massachusetts General Hospital
Classifying autism etiology by expression networks in neural progenitors and differentiating neurons	\$149,999	Q2.Other	Massachusetts General Hospital
Analysis of autism linked genes in <i>C. elegans</i>	\$62,500	Q2.Other	Massachusetts General Hospital
Molecular signatures of autism genes and the 16p11.2 deletion	\$62,500	Q2.Other	Massachusetts General Hospital
Functional connectivity substrates of social and non-social deficits in ASD	\$719,629	Q2.Other	Massachusetts General Hospital
3 Tesla 31Phosphorus magnetic resonance spectroscopy in disorder with abnormal bioenergetics	\$0	Q2.Other	Massachusetts General Hospital
In utero antidepressant exposures and risk for autism	\$343,560	Q3.S.H	Massachusetts General Hospital
Role of Intestinal Microbiome in Children with Autism	\$29,000	Q3.S.I	Massachusetts General Hospital
Cryptic chromosomal aberrations contributing to autism	\$135,649	Q3.L.B	Massachusetts General Hospital
Complex genetic architecture of chromosomal aberrations in autism	\$92,917	Q3.L.B	Massachusetts General Hospital
Autism Intervention Research Network on Physical Health (AIR-P network)	\$1,139,942	Q4.S.A	Massachusetts General Hospital
Control of synaptic protein synthesis in the pathogenesis and therapy of autism	\$148,914	Q4.S.B	Massachusetts General Hospital
A randomized, controlled trial of intranasal oxytocin as an adjunct to behavioral therapy for autism spectrum disorder	\$0	Q4.S.C	Massachusetts General Hospital
Autism Treatment Network (ATN) 2011 - MGH Clinical Coordinating Center	\$445,000	Q7.N	Massachusetts General Hospital
Autism Treatment Network (ATN) 2011- MGH/LADDERS	\$140,000	Q7.N	Massachusetts General Hospital
Using near-infrared spectroscopy to measure the neural correlates of social and emotional development in infants at risk for autism spectrum disorder	\$15,000	Q1.L.A	Harvard University
Simons Variation in Individuals Project (VIP) Imaging Analysis Site	\$159,805	Q2.S.G	Harvard University
Neural Correlates of Imitation in Children with Autism and their Unaffected Siblings	\$28,600	Q2.L.B	Harvard University
The Brain Genomics Superstruct Project	\$150,000	Q2.L.B	Harvard University
Behavioral and neural responses to emotional faces in individuals with ASD	\$29,871	Q2.Other	Harvard University
Cell specific genomic imprinting during cortical development and in mouse models	\$308,216	Q3.S.J	Harvard University
Exploration of resting-state network dynamics in autism spectrum disorders	\$30,000	Q4.Other	Harvard University

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Prosodic and pragmatic training in highly verbal children with autism	\$200,000	Q4.Other	Harvard University
A novel essential gene for human cognitive function	\$47,232	Q2.S.D	Harvard Medical School
Analysis of MEF2 in cortical connectivity and autism-associated behaviors	\$49,214	Q2.S.D	Harvard Medical School
The role of UBE3A in autism	\$250,001	Q2.S.D	Harvard Medical School
Characterizing the genetic systems of autism through multi-disease analysis	\$503,306	Q2.S.G	Harvard Medical School
Protein interaction networks in autism	\$62,500	Q2.Other	Harvard Medical School
Optical imaging of circuit dynamics in autism models in virtual reality	\$0	Q4.S.B	Harvard Medical School
Establishing next-generation tools for quantitative behavioral phenotyping	\$0	Q4.S.B	Harvard Medical School
Understanding Cell Heterogeneity In Human Brain Using Droplet Microfluidics And Single-Cell Transcriptomics	\$0	Q7.D	Harvard Medical School
MRI: Acquisition of an Infrared Eye Tracker to Study the Emergence, Use, Loss, and Requisition of Communication Skills	\$41,575	Q2.Other	Emerson College
Verbal/non-verbal asynchrony in adolescents with high-functioning autism	\$402,978	Q2.Other	Emerson College
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	\$401,927	Q2.S.D	Dana-Farber Cancer Institute
Transcriptional control of inhibitory synapse formation	\$353,295	Q2.Other	Dana-Farber Cancer Institute
Role of the 16p11.2 CNV in autism: genetic, cognitive and synaptic/circuit analyses	\$0	Q2.S.G	Broad Institute, Inc.
2/4-The Autism Sequencing Consortium: Autism gene discovery in >20,000 exomes	\$483,807	Q3.S.A	Broad Institute, Inc.
Semaphorin4D and PlexinB1 mediate GABAergic synapse development in mammalian CNS	\$27,814	Q2.Other	Brandeis University
Elucidating the function of class 4 semaphorins in GABAergic synapse formation	\$325,130	Q2.Other	Brandeis University
(SDAS) Trends in Racial and Ethnic Health Care Disparities for Children with Autism and Other Developmental Disabilities	\$99,998	Q5.S.A	Brandeis University
The effects of autism on the sign language development of deaf children	\$5,000	Q1.S.B	Boston University
Neurobehavioral research on infants at risk for SLI and autism	\$588,872	Q1.L.A	Boston University
Artifacts as windows to other minds: Social reasoning in typical and ASD children	\$49,214	Q2.Other	Boston University
The effects of autism on the sign language development of deaf children	\$53,942	Q2.Other	Boston University

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Perinatal choline supplementation as a treatment for autism	\$0	Q4.S.B	Boston University
ACE Center: Inter-regional connectivity in the speech network of minimally verbal children	\$376,136	Q4.S.G	Boston University
A non-interactive method for teaching noun and verb meanings to young children with ASD	\$58,900	Q4.Other	Boston University
ACE Center: Research, training and education	\$111,353	Q7.K	Boston University
ACE Center: Administration and data management	\$226,572	Q7.Other	Boston University
Reducing disparities in Rimely Autism Diagnosis through Family Navigation	\$99,999	Q1.S.C	Boston Medical Center
Neonatal biomarkers in extremely preterm babies predict childhood brain disorders	\$3,655,744	Q3.S.H	Boston Medical Center
Neuropeptide regulation of juvenile social behaviors	\$14,775	Q2.Other	Boston College
Identifying early biomarkers for autism using EEG connectivity	\$0	Q1.L.A	Boston Children's Hospital
ACE Network: Early biomarkers of autism spectrum disorders in infants with tuberous sclerosis	\$2,604,574	Q1.L.A	Boston Children's Hospital
EEG complexity trajectory as an early biomarker for autism	\$208,800	Q1.L.A	Boston Children's Hospital
RNA expression studies in autism spectrum disorders	\$250,000	Q1.L.A	Boston Children's Hospital
Electrophysiological, metabolic and behavioral markers of infants at risk	\$0	Q1.L.A	Boston Children's Hospital
Role of microglia and complement at developing synapses in ASD	\$122,500	Q2.S.A	Boston Children's Hospital
Mechanisms Underlying the Cerebellar Contribution to Autism in Mouse Models of Tu	\$190,458	Q2.S.D	Boston Children's Hospital
MRI biomarkers of patients with tuberous sclerosis complex and autism	\$720,276	Q2.S.D	Boston Children's Hospital
Probing synaptic receptor composition in mouse models of autism	\$249,995	Q2.S.D	Boston Children's Hospital
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	\$149,967	Q2.S.D	Boston Children's Hospital
Characterization of infants and toddlers with the 16p copy-number variation	\$149,372	Q2.S.G	Boston Children's Hospital
Simons Variation in Individuals Project (VIP) Site	\$624,864	Q2.S.G	Boston Children's Hospital
Understanding the etiological significance of attentional disengagement in infants at-risk for ASD	\$49,000	Q2.L.A	Boston Children's Hospital
Corticothalamic circuit interactions in autism	\$200,000	Q2.Other	Boston Children's Hospital
Autism genetics: Homozygosity mapping and functional validation	\$735,107	Q3.S.A	Boston Children's Hospital

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Finding recessive genes for autism spectrum disorders	\$175,000	Q3.L.B	Boston Children's Hospital
Simons Simplex Collection support grant	\$23,171	Q3.L.B	Boston Children's Hospital
Molecular Characterization of Autism Gene CHD8 in Shaping the Brain Epigenome	\$35,000	Q3.L.B	Boston Children's Hospital
Autism genetics: Homozygosity mapping and functional validation	\$150,000	Q3.L.B	Boston Children's Hospital
Treating autism and epileptic discharges with valproic acid	\$68,088	Q4.S.A	Boston Children's Hospital
Preclinical Autism Consortium for Therapeutics (PACT)-Boston Children's Hospital	\$172,009	Q4.S.B	Boston Children's Hospital
Preclinical Autism Consortium for Therapeutics (PACT)-Boston Children's Hospital Site	\$91,174	Q4.S.B	Boston Children's Hospital
Randomized phase 2 trial of RAD001 (an mTOR inhibitor) in patients with tuberous sclerosis complex	\$0	Q4.L.A	Boston Children's Hospital
Neurobiological mechanism of 15q11-13 duplication autism spectrum disorder	\$367,304	Q2.S.D	Beth Israel Deaconess Medical Center
Neurobiology of aggression co-morbidity in mouse model of idic15 autism	\$261,000	Q2.S.E	Beth Israel Deaconess Medical Center
The effects of disturbed sleep on sleep-dependent memory consolidation and daily function in individuals with ASD	\$0	Q2.S.E	Beth Israel Deaconess Medical Center
Comparing AMMT vs. Control Therapy in facilitating speech output in nonverbal children with autism	\$0	Q4.S.G	Beth Israel Deaconess Medical Center
Bridging Basic Research with Clinical Research with the Aim of Discovering Biomarkers for Autism	\$169,295	Q1.L.A	Autism Consortium
Autism Consortium	\$952,306	Q7.N	Autism Consortium

